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AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions of the claims.

1-3. (cancelled)

- 4. (currently amended) A vial closure device for closing a mouth of a vial which in use contains one of a gas or a vapor to be analyzed by extraction through a gas sampling device which is connectable to an analytical instrument and is displaceable along a sampling axis, said vial closure device comprising:
 - a tubular body member having opposite ends and locatable in the mouth of the vial, said tubular body member having at one end an aperture through which gas may pass from the vial into said tubular body member, said tubular body member further comprising a valve seat:
 - a first seal comprising a tapered surface on the tubular body member for engaging with a tapered socket on the vial for making a substantially gas-tight seal between said tubular body member and the vial:
 - a second seal arranged on said sampling axis at the other end of said tubular body member for providing a gas-tight seal around the gas sampling device inserted through said second seal into said tubular body member, said second seal comprising one or more "O" rings located in one or more respective grooves within an interior wall of the tubular body member; and
 - a valve body which cooperates with said valve seat, said aperture being closed by said valve body to prevent gas from passing from the vial into said tubular body member until said valve body is displaced along a valve axis by contact with the gas sampling device inserted into said tubular body member through said second seal by displacement along said sampling axis, thereby allowing gas to pass from the vial into said tubular body member and the gas sampling device, wherein, if said valve axis and said sampling axis are aligned, in use, a valve spindle associated with disposed-se-that the valve body prevents the gas sampling device from being inserted into the vial.

5-9. (cancelled)

(currently amended) A vial closure device as claimed in claim 6 for closing a mouth of a vial
which in use contains one of a gas or a vapor to be analyzed by extraction through a gas

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sampling device which is connectable to an analytical instrument and is displaceable along a sampling axis, said vial closure device comprising:

- a tubular body member having opposite ends and locatable in the mouth of the vial, said tubular body member having at one end an aperture through which gas may pass from the vial into said tubular body member, said tubular body member further comprising a valve seat;
- a first seal comprising a tapered surface on the tubular body member for engaging with a tapered socket on the vial, the first seal for making a substantially gas-tight seal between said tubular body member and the vial;
- a second seal arranged at the other end of said tubular body member for providing a gastight seal around the gas sampling device inserted through said second seal into said tubular body member, wherein said second seal comprises one or more "O" rings located in one or more respective grooves within an interior wall of the tubular body member, and
- a valve body which cooperates with said valve seat, said aperture being closed by said valve body to prevent gas from passing from the vial into said tubular body member until said valve body is displaced along a valve axis by contact with the gas sampling device inserted into said tubular body member through said second seal by displacement along said sampling axis, thereby allowing gas to pass from the vial into said tubular body member and the gas sampling device, wherein, if said valve axis and said sampling axis are aligned, in use, a valve spindle associated with said valve body prevents the gas sampling device from being inserted beyond said valve body into the vial.
- 11. (cancelled)
- 12. (cancelled)
- 13. (previously presented) A vial closure device as claimed in claim 14, wherein the gas sampling device can be slidingly inserted through the second end aperture and along the sampling axis within the internal cavity toward the first end to a purge position to make a substantially gas tight seal between the gas sampling device and the internal cavity without moving the valve spindle from the sealing position and the gas sampling device can be slidingly inserted along the sampling axis past the purge position toward the first end to a

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sampling position to displace the valve spindle toward the open position to allow the gas

sampling device to withdraw a gas sample from the vial.

14. (previously presented) A vial closure device for use with a vial having a mouth and defining

an interior and also with a gas sampling device, comprising:

an elongated body member having opposing first and second ends, the first end defining a

first aperture therein, an outward facing surface of the first end forming a valve seat,

the second end defining a second aperture therein, an internal wall connecting the first

and the second apertures to define an elongated internal cavity within the body

member;

a first seal comprising a gasket between the body member and the vial, the first seal for

making a substantially gas tight seal between the vial and the body member,

a valve spindle disposed within the internal cavity for longitudinal movement through the

first aperture between a biased sealing position and an open position;

a valve body connected to the valve spindle, the valve body engaging the valve seat to make a substantially gas tight seal when the valve spindle is in the sealing position and allowing gaseous communication between the vial interior and the internal cavity when

the valve spindle is displaced from the sealing position:

a second seal comprising an O ring disposed within the internal cavity for making a

substantially gas tight seal between the gas sampling device and the body member;

wherein the gas sampling device can be slidingly inserted through the second end aperture

and the second seal and along a sampling axis within the internal cavity toward the first

end and the valve prevents the gas sampling device from being inserted into the first aperture.

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15. (cancelled)

16. (previously presented) A vial closure device for use with a vial having a mouth and defining

an interior and also with a gas sampling device, comprising:

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an elongated body member having opposing first and second ends, the first end defining a first aperture therein, an outward facing surface of the first end forming a valve seat, the second end defining a second aperture therein, an internal wall connecting the first

and the second apertures to define an elongated internal cavity within the body

member:

a first seal comprising tapered surfaces on the body member and the vial, the first seal for making a substantially gas tight seal between the vial and the body member,

a valve spindle disposed within the internal cavity for longitudinal movement through the

first aperture between a biased sealing position and an open position;

a valve body connected to the valve spindle, the valve body engaging the valve seat to

make a substantially gas tight seal when the valve spindle is in the sealing position and allowing gaseous communication between the vial interior and the internal cavity when

the valve spindle is displaced from the sealing position:

a second seal comprising an O ring disposed within the internal cavity for making a

substantially gas tight seal between the gas sampling device and the body member;

wherein the gas sampling device can be slidingly inserted through the second end aperture and the second seal and along a sampling axis within the internal cavity toward the first

end and the valve prevents the gas sampling device from being inserted into the first

aperture.

17. (cancelled)

18. (previously presented) A vial closure device as claimed in claim 14 wherein the body

member comprises a circumferential flange which overlaps a top of the vial when the body

member is disposed adjacent the mouth of the vial, and wherein the body member is

securable to the vial by a threaded retaining ring passed over the body member and

engaged with threads on an exterior vial surface.

19. (previously presented) A vial closure device as claimed in claim 14 wherein the body

member is made from metal.

20. (previously presented) A vial closure device as claimed in claim 16, wherein the gas

sampling device can be slidingly inserted through the second end aperture and along the

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sampling axis within the internal cavity toward the first end to a purge position to make a substantially gas tight seal between the gas sampling device and the internal cavity without moving the valve spindle from the sealing position and the gas sampling device can be slidingly inserted along the sampling axis past the purge position toward the first end to a sampling position to displace the valve spindle toward the open position to allow the gas sampling device to withdraw a gas sample from the vial.

 (previously presented) A vial closure device as claimed in claim 16 wherein the body member is made from metal.